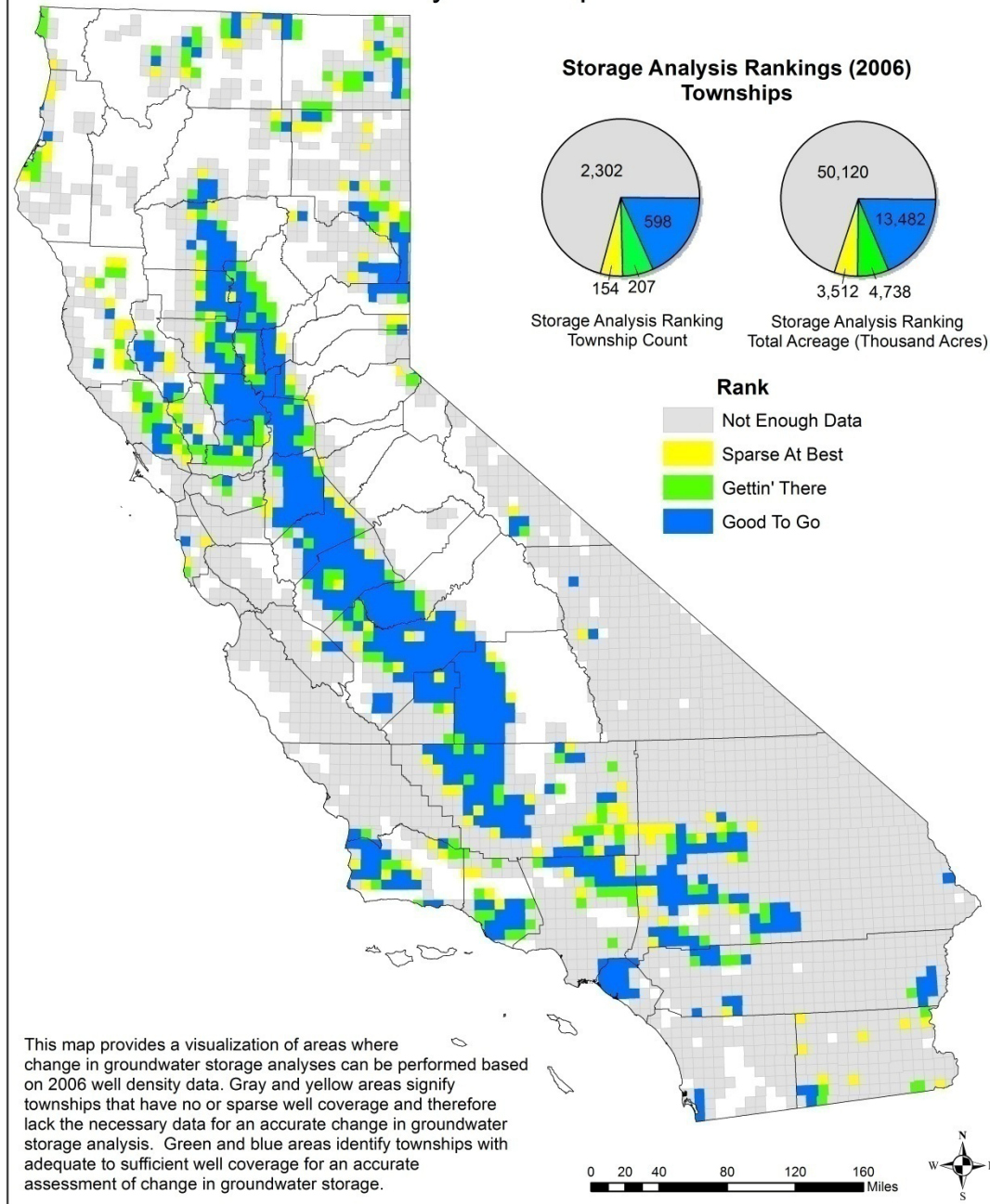
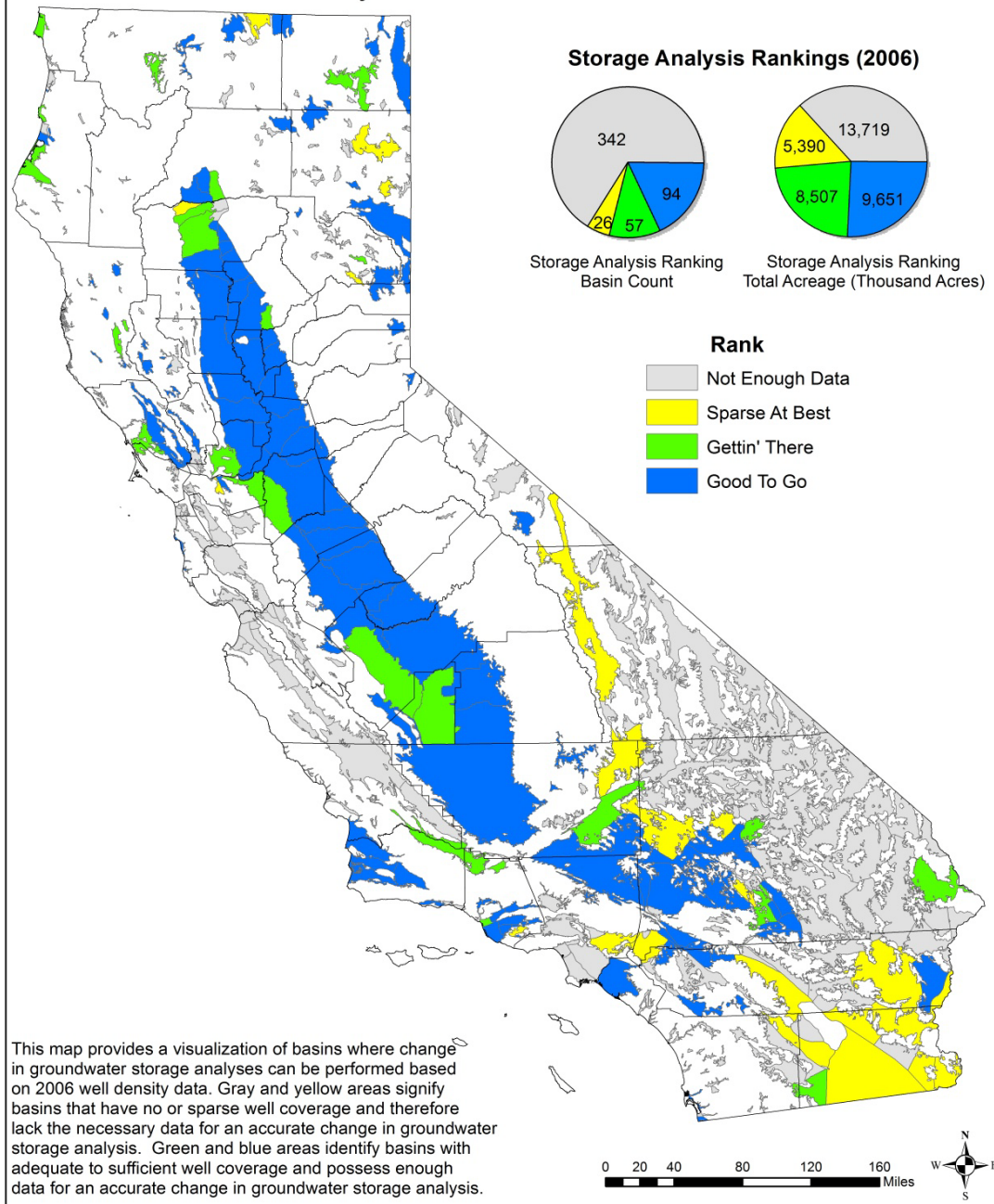


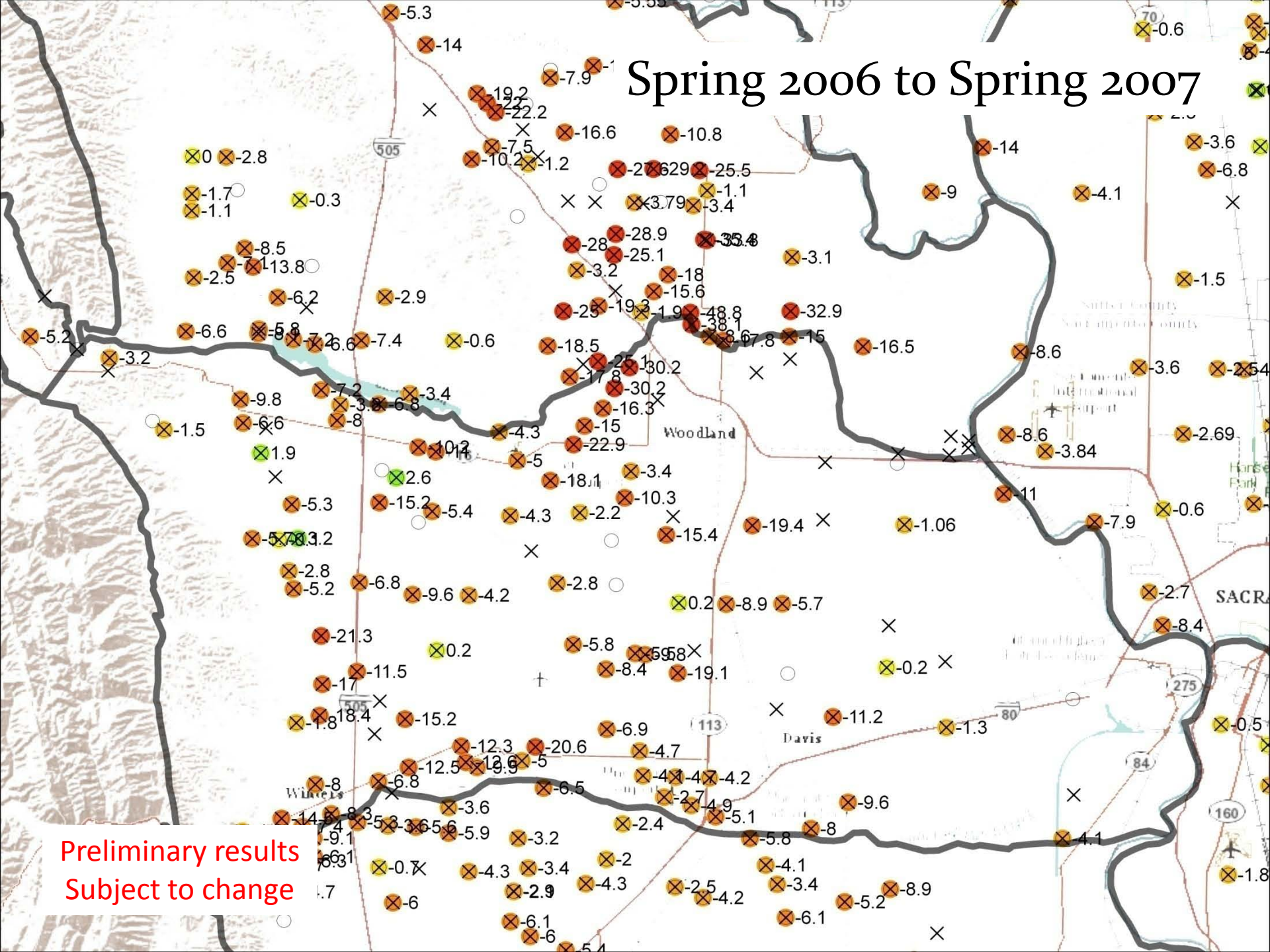
Assessment for Change in Groundwater Storage Analyses (2006) By Township



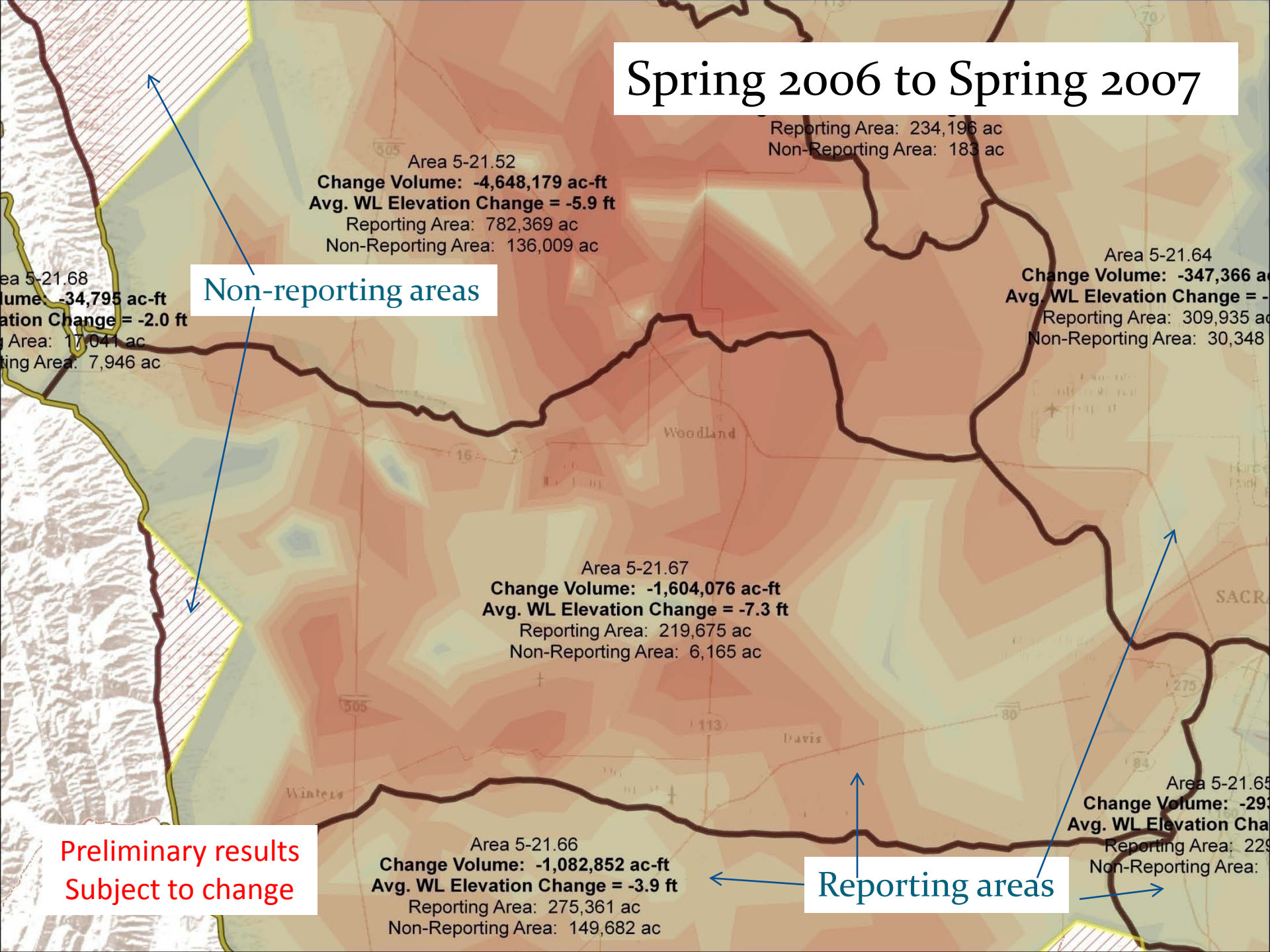
Assessment for Change in Groundwater Storage Analyses (2006) By Groundwater Basin



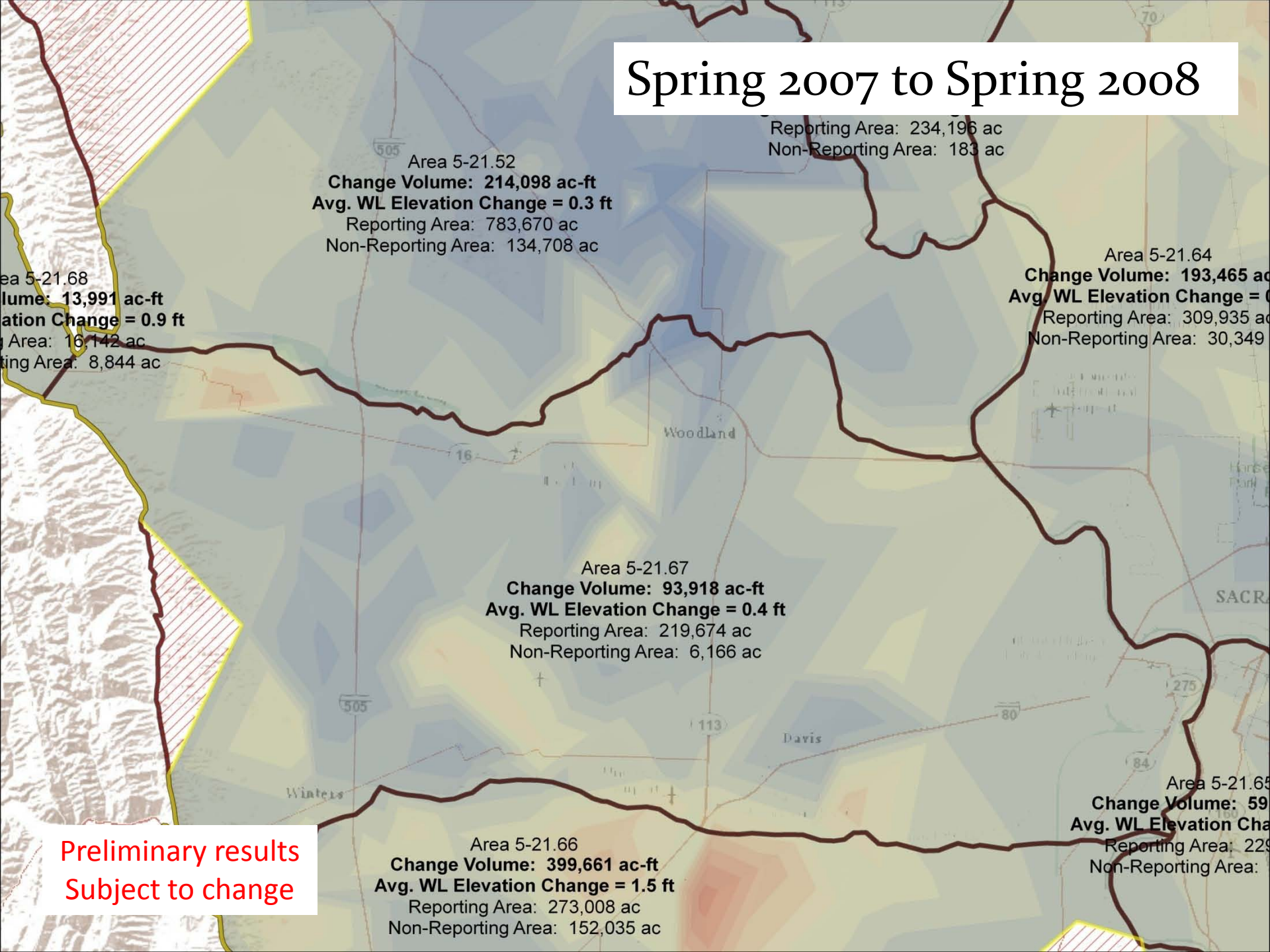
Spring 2006 to Spring 2007



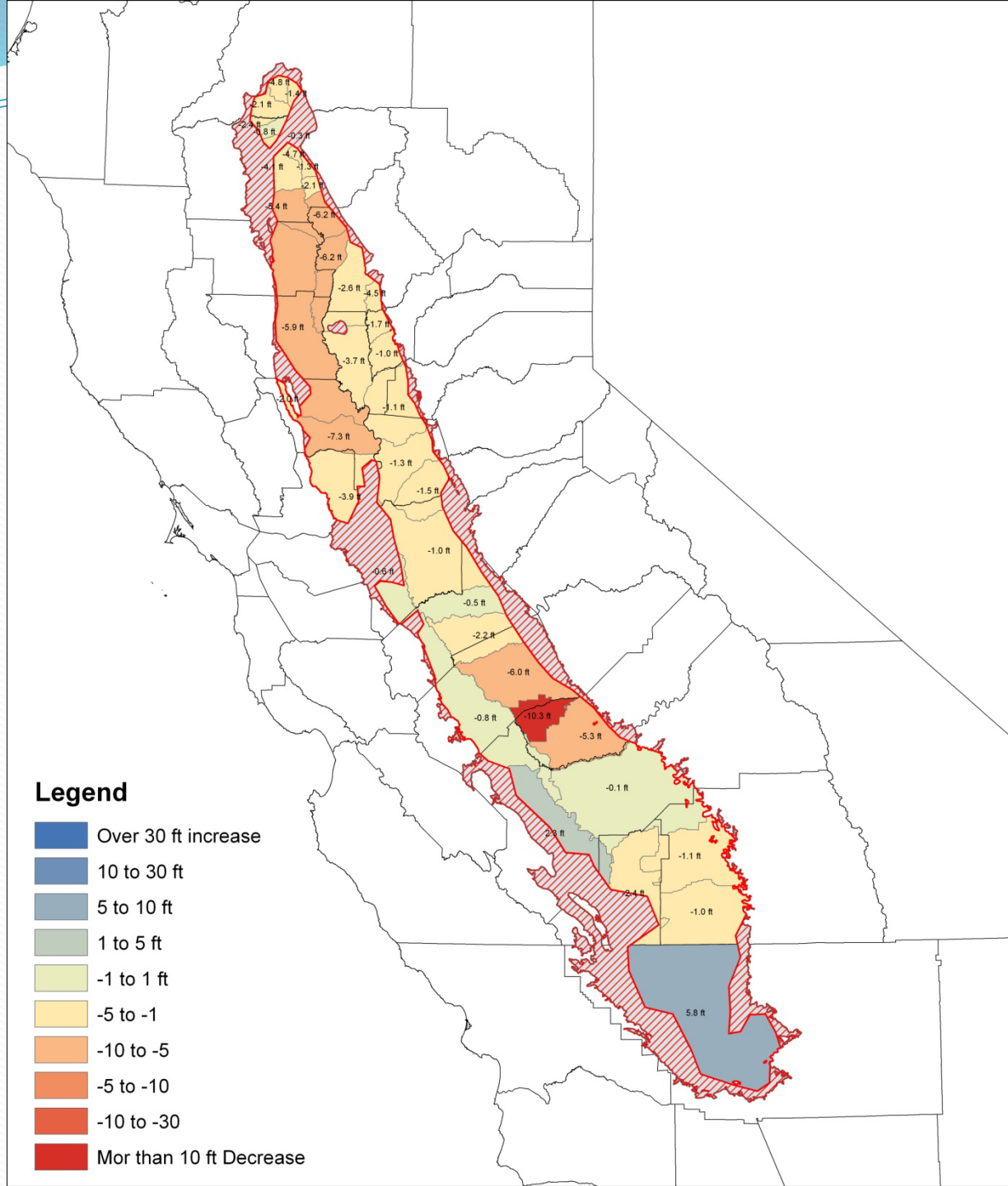
Spring 2006 to Spring 2007



Spring 2007 to Spring 2008



Preliminary results
Subject to change



Central Valley by County regions



DAU



DAU
GW Basin

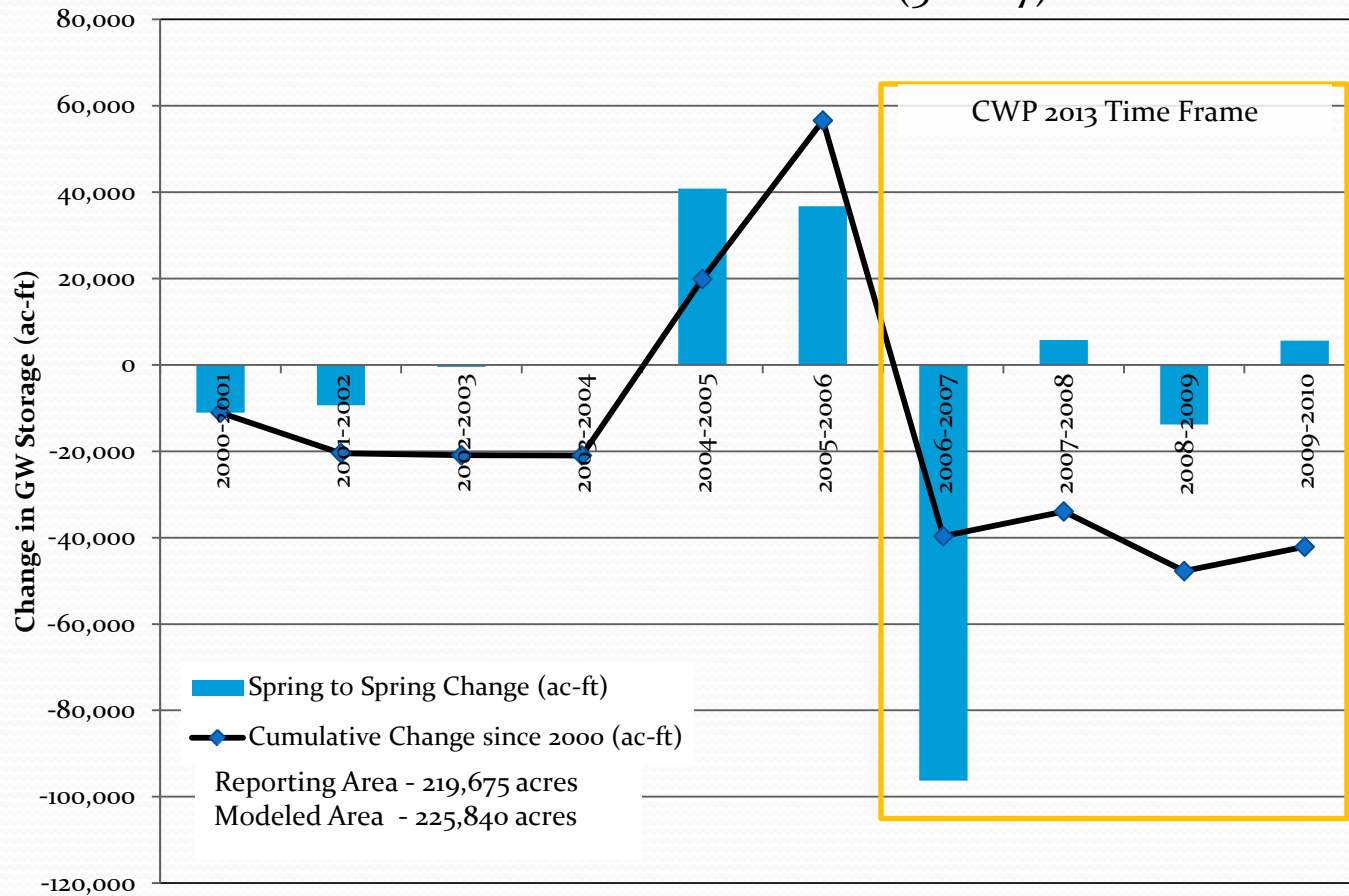


DAU
GW Basin
County



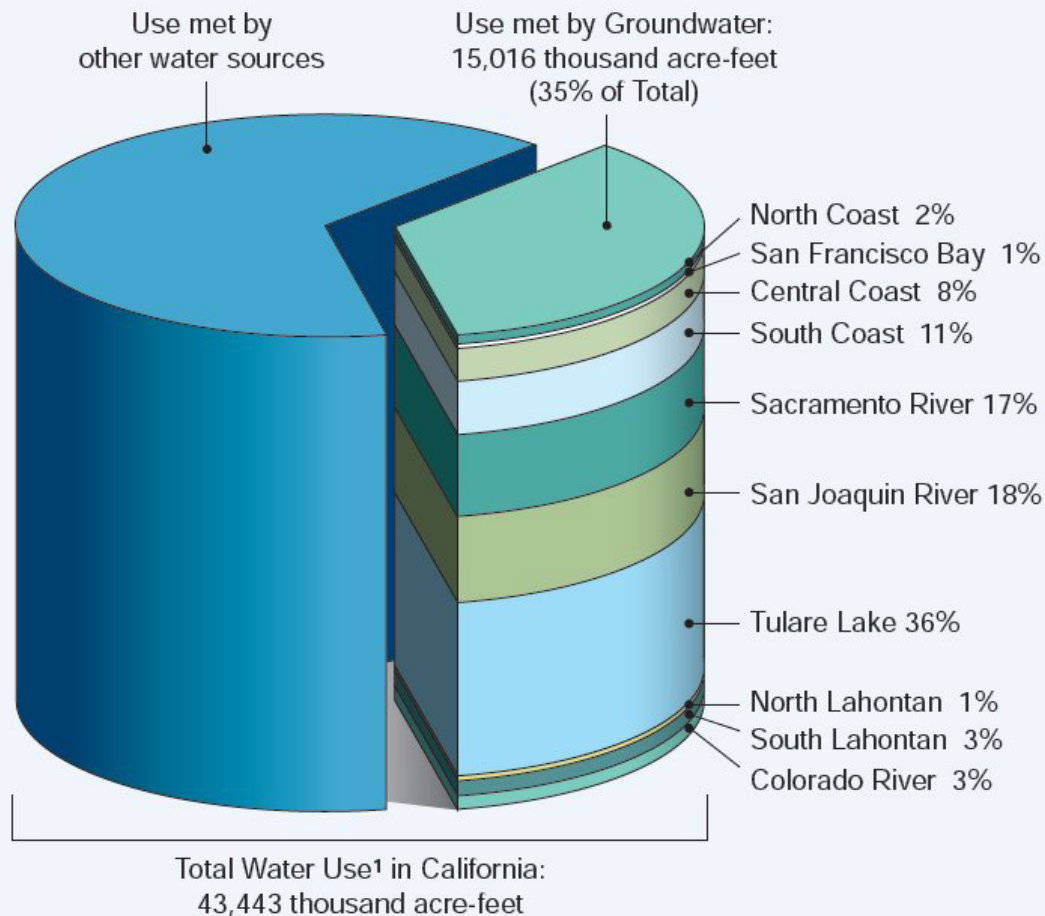
Analysis Results Summary

Estimated Change in Spring to Spring GW Storage
B118 Yolo Subbasin (5-21.67)

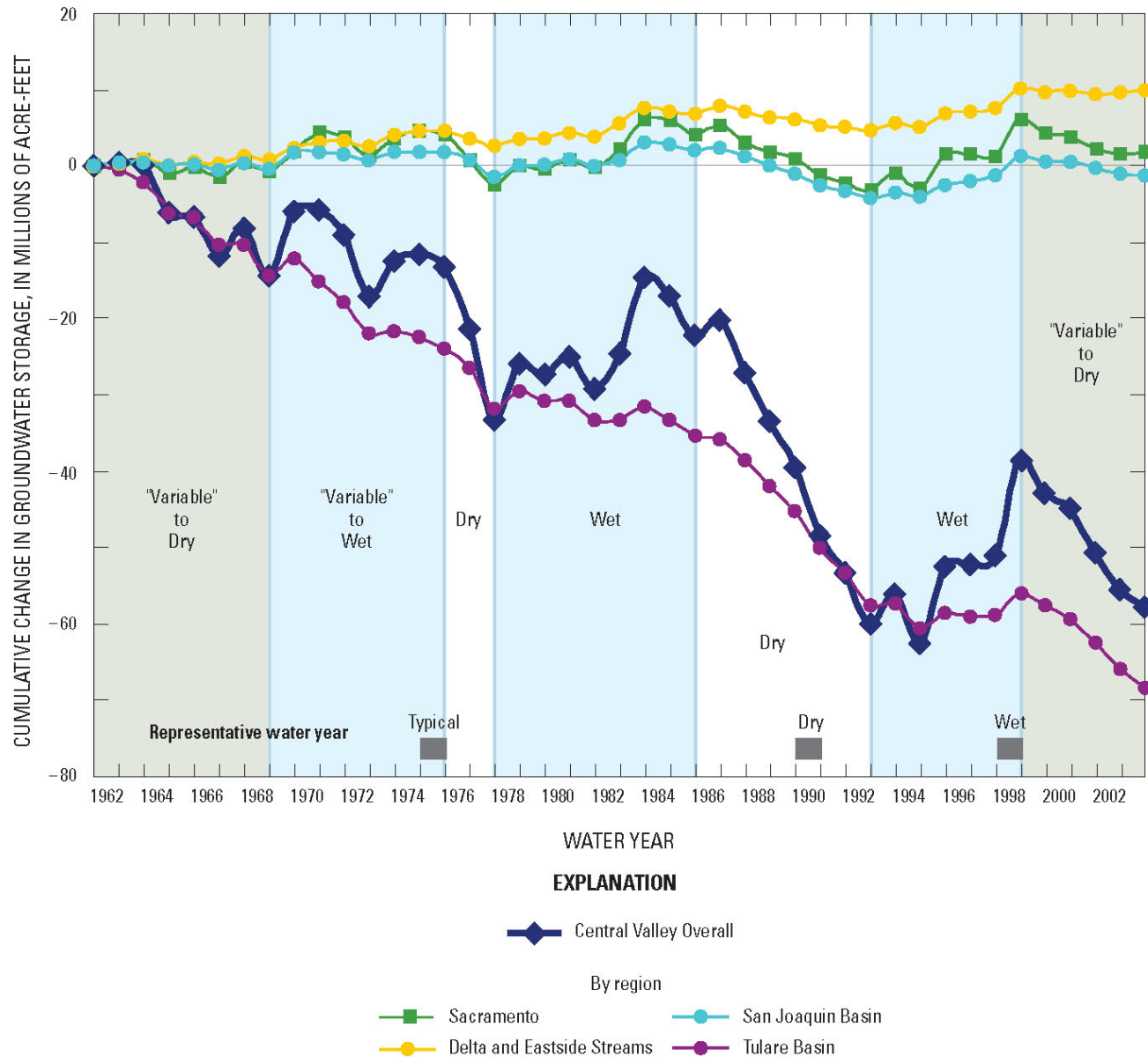


Analysis Results Summary

Figure A Percentage of groundwater extraction in California, statewide and by hydrologic region (1998-2005 average annual data)

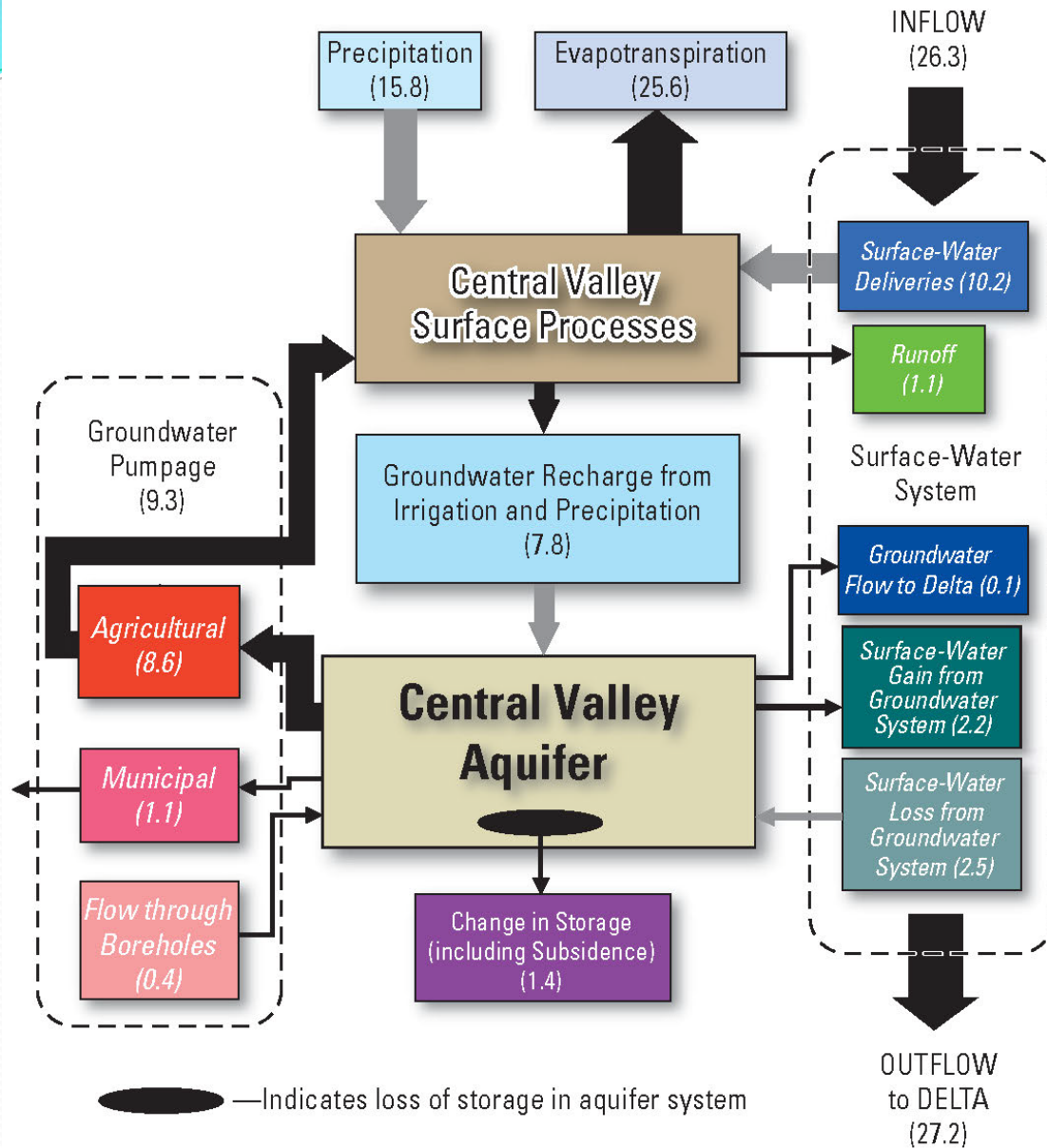


1. Total Water Use is defined as the sum of water uses for agricultural, urban, and managed wetlands.



Change in Storage Examples

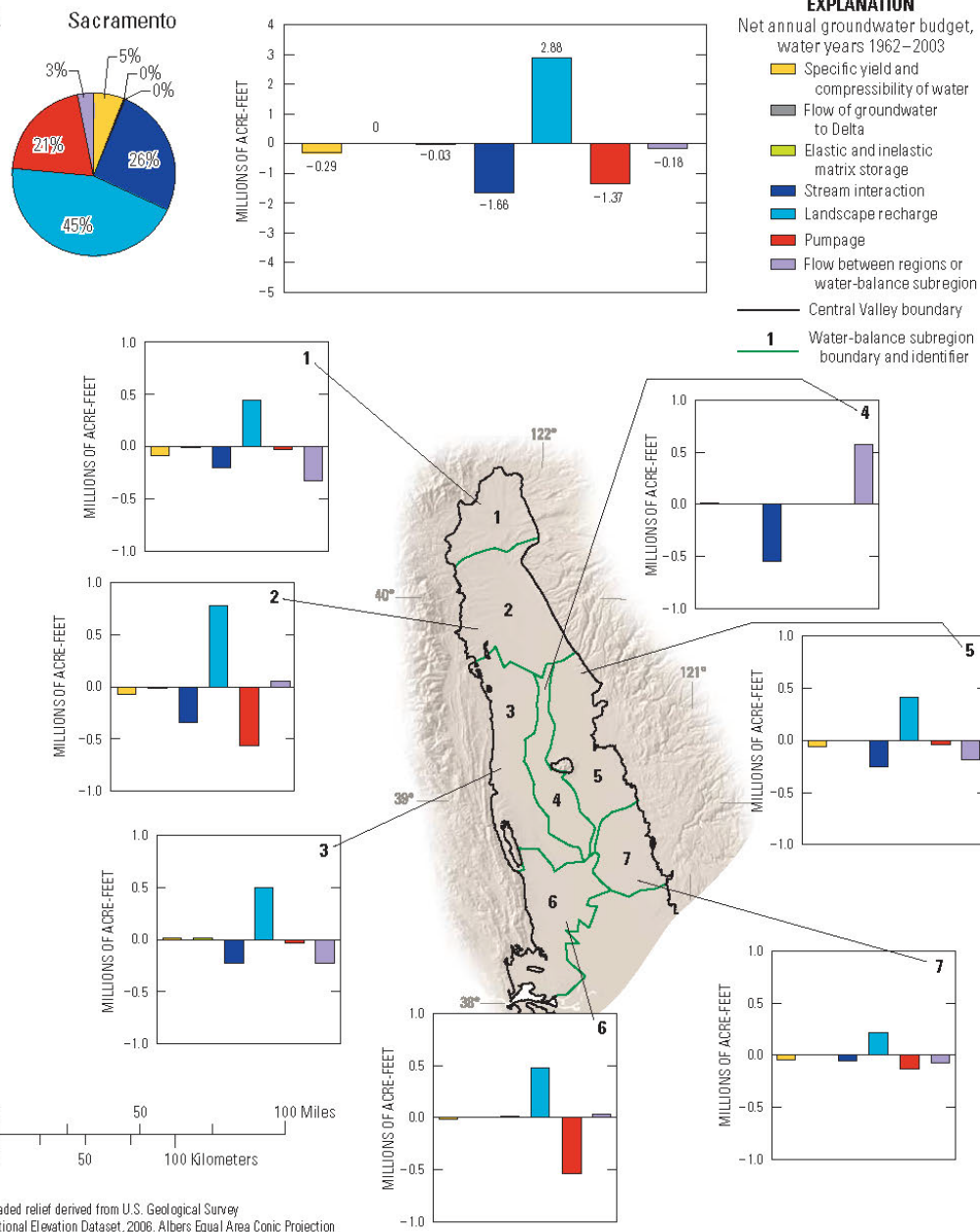
Figure B9. Simulated cumulative annual changes in aquifer-system storage between water years 1962 and 2003 for the Central Valley, California.



Change in Storage Examples

Figure B1. Average water budget for water years 1962–2003. This budget includes the landscape and groundwater components and their linkages. Values in millions of acre-ft/yr. A diagram showing the pre-development water budget is shown in *figure A23*.

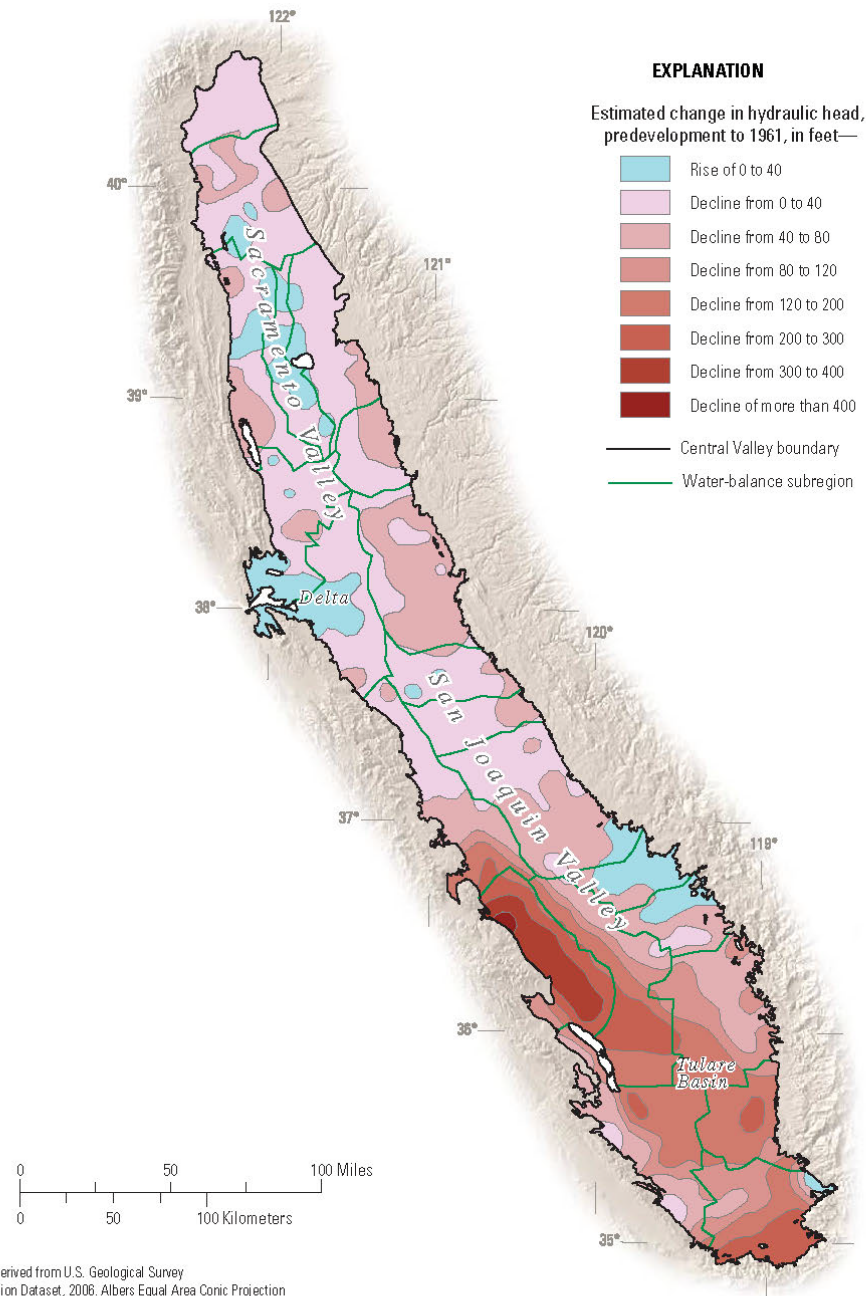
A



Change in Storage Examples

Figure B10. Average annual groundwater budget for the *A*, Sacramento Valley. *B*, Delta and Eastside Streams. *C*, San Joaquin Valley. *D*, Tulare Basin. Schematic bar charts of average annual groundwater budget for the 21 water-balance subregions (WBSs) in the Central Valley also are shown.

A



Shaded relief derived from U.S. Geological Survey
National Elevation Dataset, 2006. Albers Equal Area Conic Projection

Figure B4. A, Estimated change in hydraulic head in upper part of the aquifer system from 1860 to 1961 (modified from Williamson and others, 1989; Bertoldi and others, 1991). B, Simulated change in hydraulic head in lower part of the aquifer system from spring 1962 to spring 2003.

Change in Storage Examples

Change in Storage Examples

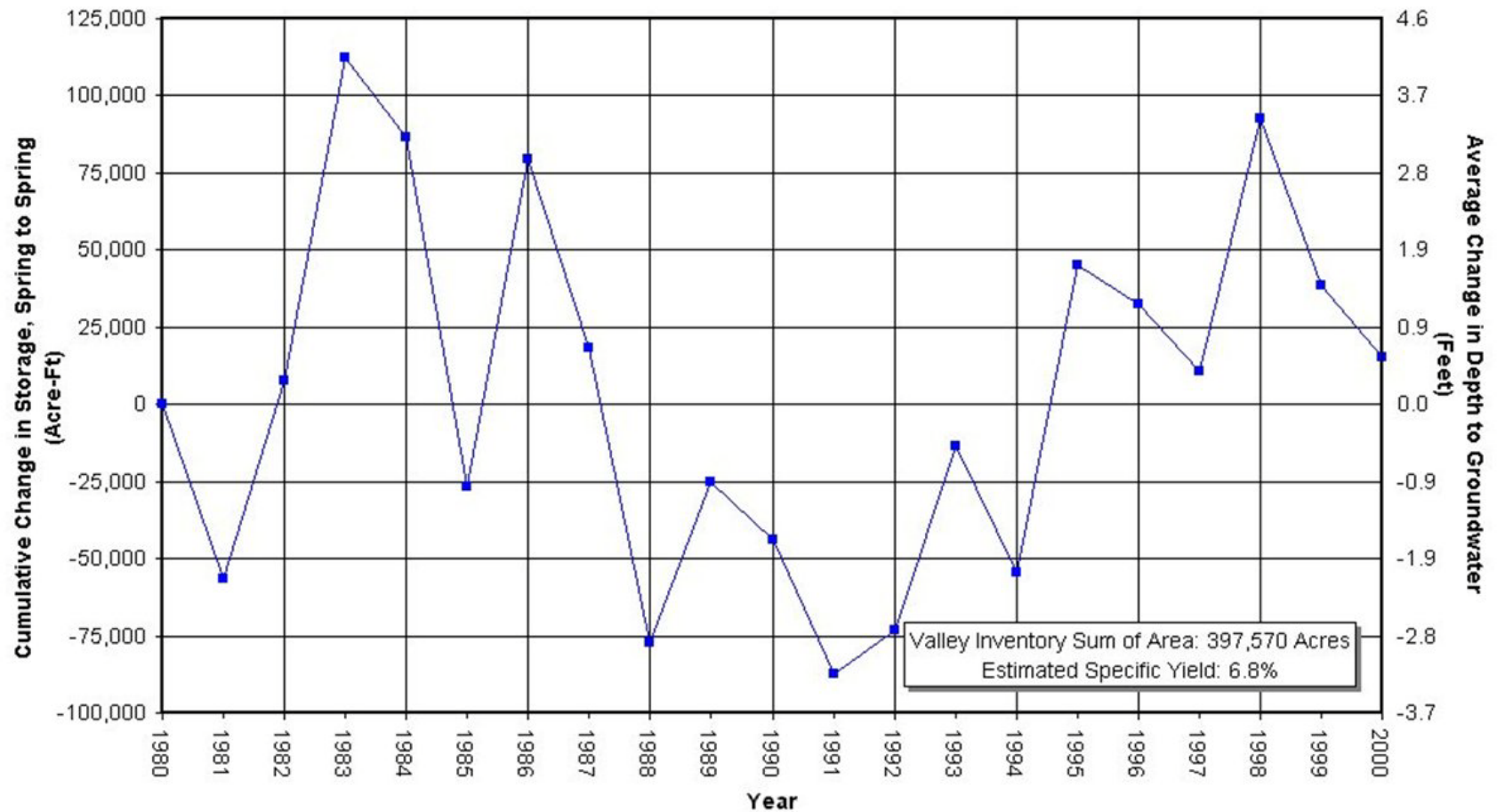


Figure 14. Estimated Cumulative Changes in Spring-to-Spring Storage, Sacramento Valley Portion of Butte County.

Change in Storage Examples

INVENTORY UNIT	SUB-INVENTORY UNIT	Surface Area (acres)	Specific Yield	GW Extraction * Normal Year (acre/feet)	GW Extraction * Drought Year (acre/feet)	Average Change in GW Elevations (feet)	
						Normal Year	Drought Year
Vina	Inventory Unit Total/Average:	74,935	7.1%	124,100	148,390	-23	-28
West Butte	Durham Dayton	39,783	6.6%	84,470	107,470	-32	-41
	M&T	8,184	6.6%	5,180	7,040	-10	-13
	Llano Seco	18,378	6.6%	1,160	1,590	-1	-1
	Angel Slough	5,346	6.6%	9,550	12,230	-27	-34
	Western Canal (33%)	14,767	6.6%	1,640	9,720	-2	-10
	Inventory Unit Total/Average:	86,458	6.6%	102,000	138,050	-18	-24
East Butte	Pentz	1,885	6.3%	70	70	-1	-1
	Esquon	11,604	6.3%	12,000	21,900	-17	-30
	Cherokee	14,704	6.3%	21,370	24,420	-23	-27
	Western Canal (67%)	29,980	6.3%	3,810	31,170	-2	-17
	Richvale	39,401	6.3%	-5,730	25,640	2	-10
	Thermalito	25,468	6.3%	18,350	20,070	-12	-13
	Biggs-west Gridley	33,971	6.3%	2,510	16,560	-1	-8
	Butte	21,370	6.3%	18,940	27,430	-14	-21
	Butte Sink	10,273	6.3%	170	1,060	0	-2
	Inventory Unit Total/Average:	188,656	6.3%	71,490	168,320	-6	-14
North Yuba	North Yuba	47,521	8.8%	44,100	55,040	-11	-13
Split Areas	California Water Service	15,425	6.3%	18,180	20,570	-19	-21
	Western Canal	44,747	6.5%	5,450	40,890	-2	-14
Valley Area	Valley Total/Average:	397,570	6.8%	341,690	509,800	-13	-19

*Seasonal Groundwater Extraction equals: summer agricultural extraction, plus 70% of annual M&I extraction, minus 30% of annual deep percolation.

TABLE 10. ESTIMATED SEASONAL CHANGES IN THE VOLUME OF GROUNDWATER IN STORAGE AND THE ASSOCIATED CHANGES IN GROUNDWATER ELEVATIONS FOR 1997 NORMAL AND DROUGHT YEAR SCENARIOS